Environmental Issues Associated with Deployed Operations

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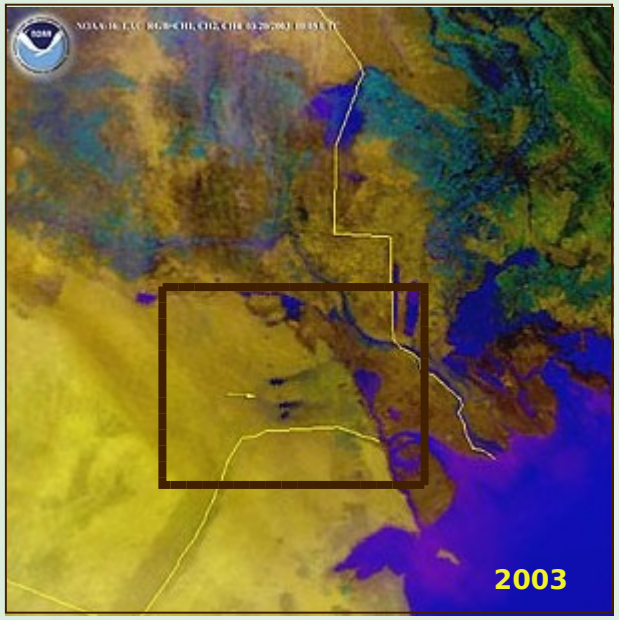
Implications- Strategic/Operational/Tactical

Desert Storm

VERSUS



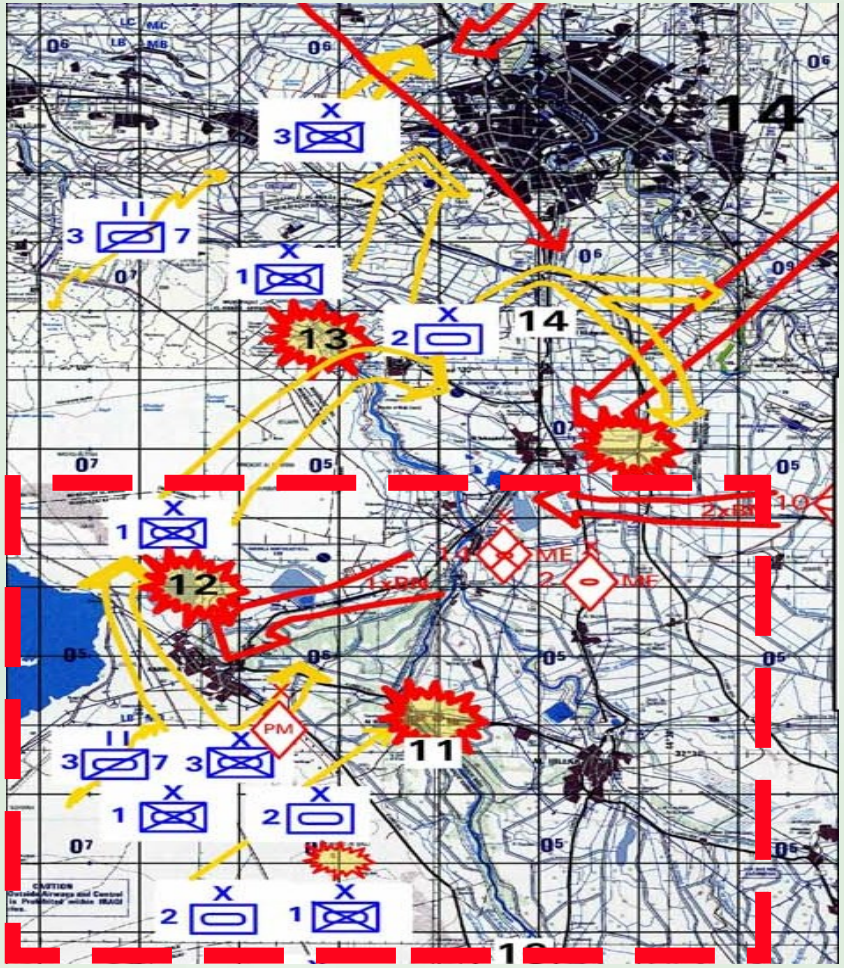
Iraqi Freedom

Implications-Tactical

Desert Storm **VERSUS** **Iraqi Freedom**

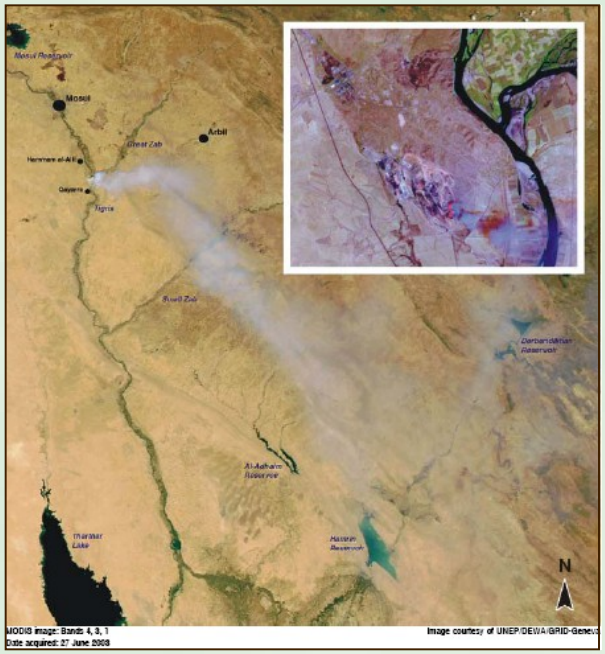
Implications-Tactical

- Karbala Gap, Razzazah Reservoir.



Implications- Stability Operations Support Operations (SOSO)

Baghdad Museum

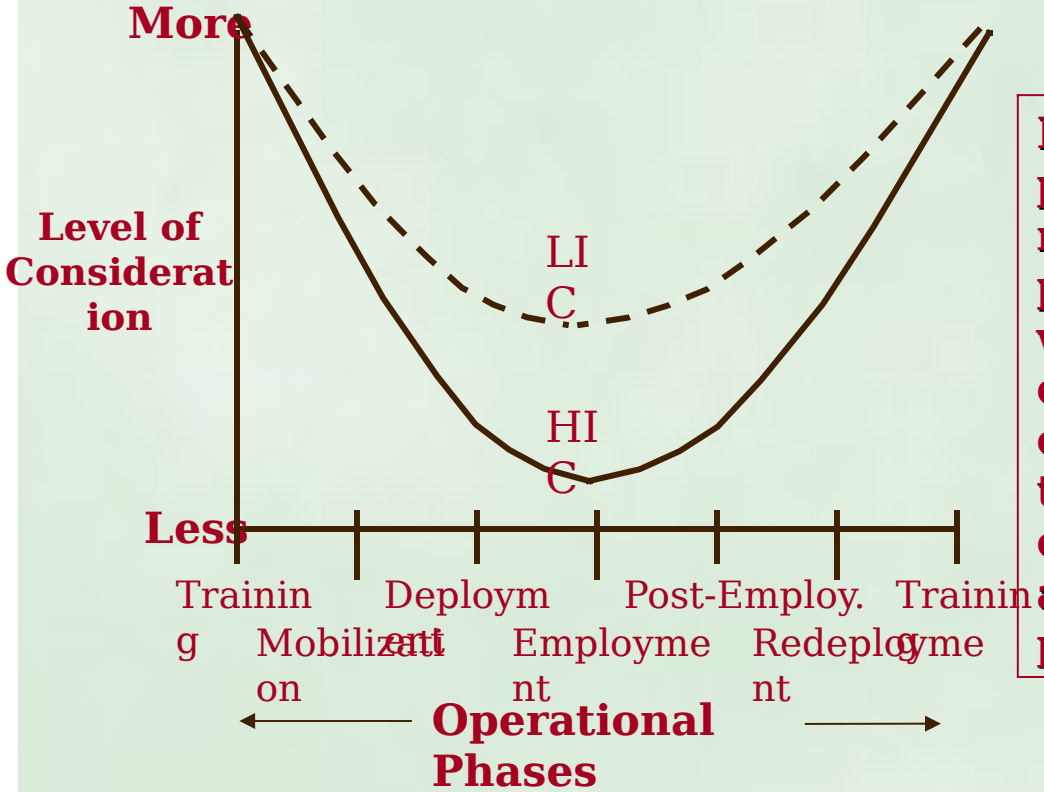


Al-Mushraq Sulfur Plume

Midland storage facility prior to the outbreak of conflict (top left)
Warehouses, containing highly hazardous chemicals, were completely destroyed by looting and arson
Chemical spill from burst and damaged barrels

Midland Al-Douri Chemical Storage Facility

Environmental Considerations and Full Spectrum Operations



Levels of Environmental Consideration

FM 3-0 *Operations*, paragraph 1-49 states, "....As missions change from promoting peace to deterring war and from resolving conflict to war itself, the combinations of and transitions between these operations require skillful assessment, planning, preparation, and execution.

What Will US Forces Encounter?

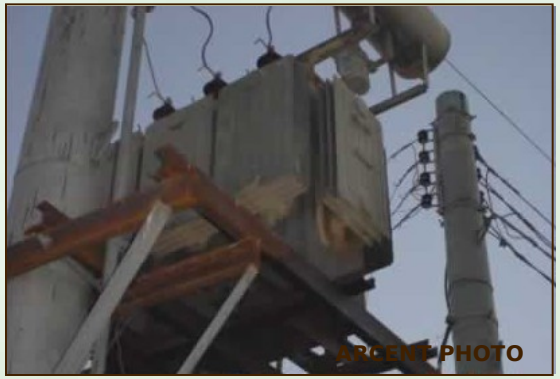
Objective Force Maneuver Support Operational Concept: Neutralize hazards and restore the environment.

- **Environmental in the IPB and MDMP.**
- **Train to Identify and respond to hazards.**

It’s not necessarily what we encounter-but how we mitigate the risk!

Implications-Force Health Protection

- Confined space entry.
- PCB’s and Asbestos.



Transformers

Asbestos

Confined space entry hazard

Implications-Force Health Protection

- **Hazardous chemicals.**

Unidentified chemicals

Implications- Stability Operations Support Operations (SOSO)

- Endangered species.
- Cultural/Historical sites.

Endangered species

Historical sites

Implications- Stability Operations Support Operations (SOSO)

- **Lack of consistent environmental laws.**

Lack of environmental considerations or awareness

Operational Impacts on FHP, the Environment & Vise Versa

- Erosion and dust - air quality and visibility.

Air quality/erosion - base camp planning

Operational Impacts on FHP, the Environment & Vise Versa

- **Dust suppression - air quality and visibility.**

DEI PHOTO

ARCENT PHOTO

Dust suppression

ARCENT PHOTO

ARCENT PHOTO

Operational Impacts on the Environment

- Fueling operations.
- Lack of secondary containment in

Unsound practices in Afghanistan (Non contracted)

Vs

Sound practices in Uzbekistan (Contracted)

Operational Impacts on the Environment

- **Satellite Accumulation Points (SAP) operations.**
- **[illegible] support to pick[illegible]**

Overfull SAP

Unsound practices in Afghanistan (Non contracted)

Vs

Sound practices in Uzbekistan (Contracted)

Incorrect Procedures

Standard SAP

Annual Accumulation of POL

Annual Accumulation of Lithium Batteries

Operational Impacts on the Environment

- **Mobile Satellite Accumulation Points.**

Improvised SAP in Iraq

USMC Six-Con

Operational Impacts on the Environment

- TTPs for landfills/burn pits.

Temporary Landfill

Temporary Burn Pit

Prescribed burning

ERECT CONCERTINA AT INNER EDGE OF TOP BERM
PLACE 8"X8" BEAMS ATEDGE OF PIT. DRIVE PICKETS TO SECURE BEAMS IN PLACE. LEAVE 10' SPACE BETWEEN BEAMS
FET PHOTO

Permanent Burn Pit

Operational Impacts on the Environment

- TTPs for Gray water operations.

OEF

OIF

Environmental Aspects Comparison

The further units transition away from garrison, the less prepared they are to incorporate environmental aspects into their operations

Environmental Aspect Comparison

Garrison Operations

- Fixed infrastructure (e.g. waste streams wash racks, S.A.P.s, porta potties)
- Equipment (e.g. civilian spt)
- OEBGD (OCONUS)
- Policies and SOPs
- Education

Operational Deployments

- Env Annexes/Appendixes
- OEBGD/DoDDs/E.O./FGS
- TTPs Env Field Infrastructure
- Education

- Laws & Regulations
- Contract Support
- DoDDs/E.O.s

- Planning
- Phased Env Stds
- Equipment
- FSOPs

Training & Mobilization

- No Env Trng Scenarios or Simulations
- Infrastructure (e.g. waste streams)
- Planning/Support “White Teams”
- Policies

Summary

- **Environmental issues are important Strategically, Operationally, and Tactically.**

- **Need to combat the perception that environmental concerns are less demanding during operational deployments.**

- **Disparity exists as we transition operations from Garrison, to Training, to Operational Deployments.**

- **Integration of Environmental**

Questions?

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